Curriculum Vitae

Sarah C. Davis

Website: http://www.davisresearchgroup.org/

Mailing Address:
Voinovich School of Leadership and Public Service
Environmental Studies
1 Ohio University
Building 22, The Ridges
Athens, OH 45701

Email:
daviss6@ohio.edu,
srosendavis@gmail.com
Phone:
724-322-9647 (cell), 740-597-1459 (office), 740-593-1325 (office/lab)

RESEARCH INTERESTS

- Sustainable renewable energy systems
- Carbon and nitrogen cycling in managed ecosystems
- Crassulacean acid metabolism
- Diversification in agricultural landscapes
- Biogeochemical and plant ecophysiological impacts of land use and global change

PUBLICATIONS

*indicates student authors

Davis SC, Maynard FG*, Jenkins D, Herman T*, Reza MT. 2024. Potential for improving the nutrient use efficiencies of human food systems with a circular economy of organic wastes and fertilizer. Environmental Research Letters doi 10.1088/1748-9326/ad6617.

Adu Fosu S*, **Davis SC**. 2024. Decadal change in soil carbon and nitrogen with a *Miscanthus* x *giganteus* crop on abandoned agricultural land in southeast Ohio. GCB Bioenergy 16: e137171. https://doi.org/10.1111/gcbb.13171.

Perez-Pimienta JA, Méndez-Acosta HO, **Davis SC**, Tan DK. 2023. Editorial: The role of *Agave* as feedstock within a sustainable circular bioeconomy. Frontiers in Chemical Engineering 5: doi: 10.3389/fceng.2023.1343629.

Ricket AL, Jolley GJ, Knutsen FB, **Davis SC.** 2023. Rural sustainable prosperity: social enterprise ecosystems as a framework for sustainable rural development. Sustainability 15: 11339, https://doi.org/10.3390/su151411339.

Davis SC, Ortiz-Cano H. 2023. Lessons from the history of *Agave*: ecological and cultural context for valuation of CAM. Annals of Botany 132: 819-833. https://doi.org/10.1093/aob/mcad072.

Ricket AL, Knutsen FB, Jolley GJ, **Davis SC.** 2022. Appalachian social entrepreneurship ecosystem: A framework for rural development. Community Development https://doi.org/10.1080/15575330.2022.2155676.

Davis SC. 2022. *Agave americana*: Characteristics and potential breeding priorities. Plants 11: 2305, https://doi.org/10.3390/plants11172305.

Herman T*, Nungesser E*, Miller KE, **Davis SC**. 2022. Comparative fuel yield from anaerobic digestion of emerging food and brewery systems. Energies 15: 1538, https://doi.org/103390/en15041538.

Adjuik TA*, **Davis SC**. 2022. Machine learning approach to simulate soil CO_2 fluxes under cropping systems. Agronomy 12: 197, https://doi.org/10.3390/agronomy12010197.

Davis SC, Abatzoglou JT, Lebauer DS. 2021. Expanded potential growing region and yield increase for *Agave americana* with future climate. Agronomy 11(11): 2109, https://doi.org/10.3390/agronomy11112109.

Miller K, Herman T*, Philipinanto D*, **Davis SC.** 2021. Anaerobic digestion of food waste, brewery waste, and agricultural residues in an off-grid continuous reactor. Sustainability 13, https://doi.org/10.3390/su13126509.

Saha N*, McGaughy K*, **Davis SC**, Reza MT. 2021. Assessing hydrothermal carbonization as sustainable home sewage management for rural counties: A case study from Appalachian Ohio. Science of the Total Environment 781, 146648.

Iuliano B*, Cartmill A, **Davis SC**, Kerr A, Perfecto I. 2021. Human Dimensions: Agroecology for just and sustainable food systems. Bulletin of the Ecological Society of America https://doi.org/10.1002/bes2.1871.

Adjuik T*, Rodjom AM*, Miller KE, Reza MT, **Davis SC**. 2020. Application of hydrochar, digestate, and synthetic fertilizer to a *Miscanthus x giganteus* crop: Implications for biomass and greenhouse gas emissions. Applied Sciences 10: article 8953; doi:10.3390/app10248953.

Jones AM*, Zhou Y, Held M, **Davis SC.** 2020. Tissue composition of *Agave americana* L. yields greater carbohydrates from enzymatic hydrolysis than advanced bioenergy crops. Frontiers in Plant Science 11: article 654.

Miller KE, Grossman E*, Stuart BJ, **Davis SC.** 2020. Pilot-scale biogas production in a temperate climate using variable food waste. Biomass and Bioenergy 138: 105568.

Davis SC, Simpson J, Gil Vega KDC, Niechayev NA*, van Tongerlo E*, Hurtado Castano N, Dever LV, Búrquez A. 2019. Undervalued potential of crassulacean acid metabolism (CAM) for current and future agricultural production. Journal of Experimental Botany *Special Issue on CAM.* 70: 6521-6537. https://doi.org/10.1093/jxb/erz223

Niechayev N*, Jones A*, Rosenthal D, **Davis SC.** 2018. A model of environmental limitations on production of *Agave americana* L. grown as a biofuel crop in semi-arid regions. Journal of Experimental Botany. 70: 6549-6559. https://doi.org/10.1093/jxb/ery383

Davis SC, Kloepfer J*, Mayer J*, Cushman J. 2018. Diversifying Agriculture with Novel Crop Introductions to Abandoned Lands with Suboptimal Conditions. *In* Climate Change and Crop Production: Foundations for Agroecosystem Resilience. Edited by N Benkeblia, CRC Press, USA. pgs 163-172. ISBN 9781138032347.

Davis SC, Straker KC*, Rodjom A*, Grossman E*, Jones A*, Miller KE. 2018. Mismatch of life-cycle inventories for bioenergy, fossil fuel, and agricultural resource production. *In* Green Chemistry for Sustainable Biofuel Production. Edited by VG Gude, CRC Press and AAP, Ontario and New Jersey. 592 pages. ISBN 9781771886390.

Black C*, **Davis SC**, Hudiburg T, Bernacchi C, DeLucia EH. 2017. Elevated CO_2 and temperature increase soil C losses from a soy-maize ecosystem. Global Change Biology 23: 435-445.

Davis SC, Kuzmick ER*, Niechayev N*, Hunsaker DJ. 2017. Productivity and water use efficiency of *Agave americana* in the first field trial as bioenergy feedstock on arid lands. Global Change Biology Bioenergy 9: 314-325. doi: 10.1111/gcbb.12324.

Davis SC, Kauneckis D, Kruse NA, Miller KE, Zimmer M, Dabelko GD. 2016. Closing the loop: integrative systems management of waste in food, energy, and water systems. Journal of Environmental Studies and Sciences 6:11-24.

Long SP, Karp A, Buckeridge MS, **Davis SC**, Jaiswal D, Moore PH, Moose SP, Murphy DJ, Agyeman SO, Vonshak A. 2015. Feedstocks for Biofuels and Bioenergy (Chapter 10) *In*

Bioenergy and Sustainability: bridging the gaps. Edited by Mendes Souza G, Victoria RL, Joly CA, Verdade LM., SCOPE, FAPESP. Paris, France.

Davis SC, Ming R, Lebauer D, Long SP. 2015. Toward systems-level analysis of agricultural production from crassulacean acid metabolism (CAM): scaling from cell to commercial production. New Phytologist 208: 66-72.

Yang X, Cushman, Borland, Edwards, Wullschleger, Tuskan, Owen, Griffiths, Smith, De Paoli, Weston, Cottingham, Hartwell, **Davis S** *et al.* 2015. A roadmap for research on crassulacean acid metabolism (CAM) to enhance sustainable food and bioenergy production in a hotter, drier world. New Phytologist 207:491-504.

Cushman JC, **Davis SC**, Yang X, Borland AM. 2015. Development and use of bioenergy feedstocks for semi-arid and arid lands. Journal of Experimental Botany 66: 4177-4193 doi:10.1093/jxb/erv087.

Lin T, Rodriguez L, **Davis SC**, Khanna M, Yogendra S, Grift T, Long S, Ting KC. 2015. Biomass feedstock preprocessing and long-distance transportation logistics. GCB Bioenergy, doi: 10.1111/gcbb.12241.

Hudiburg T, **Davis SC**, Parton WJ, DeLucia EH. 2015. Bioenergy crop greenhouse gas mitigation potential under a range of management practices. GCB Bioenergy 7: 366-374, doi: 10.1111/gcbb.12152.

Bagley JE, **Davis SC**, Georgescu M, Hussain MZ, Miller J, Nesbitt SW, VanLoocke A, Bernacchi CJ. 2014. The biophysical link between climate, water, and vegetation in bioenergy agro-ecosystems. Biomass and Bioenergy 71:187-201.

Davis SC, LeBauer D, Long S. 2014. Light to liquid fuel: theoretical and realized energy conversion efficiency of plants using Crassulacean Acid Metabolism (CAM) in arid conditions. Journal of Experimental Botany (special issue: C4-CAM) 65: 3471-3478.

O'Keefe K, Springer CJ, Grennell J*, **Davis SC.** 2014. Biofuel Development from Cellulosic Sources *in* Ecology and the Environment, The Plant Sciences (Editor RK Monson) Volume 8, pp. 601-629. Springer, New York.

Davis SC and Long SP. 2014. Agave/Sisal, Chapter 9 *in* Industrial Crops: Breeding for BioEnergy & Bioproducts, M. Cruz and D. Dierig (Eds). Springer, New York. pgs 335-349.

Davis SC, Kucharik CJ, Fazio S and Monti A. 2013. Environmental sustainability of advanced biofuels. Biofpr (*Special Issue*: An Atlantic bridge for comparing EU and US views on the prospects of second-generation biofuels) 7(6): 638-646.

Duval BD, Anderson-Teixeira KJ, **Davis SC**, Keough C, Long SP, Parton WJ and DeLucia EH. 2013. Predicting greenhouse gas emissions and soil carbon from changing pasture to an energy crop. PLOS One 8(8): e72019. doi:10.1371/journal.pone.0072019

Davis SC, R Boddey, B Alves, A Cowie, B George, SM Ogle, P Smith, M van Noordwijk, MT van Wijk. 2013. Management swing potential for bioenergy crops. Global Change Biology Bioenergy 5(6): 623-638, doi: 10.1111/gcbb.12042.

Mao Y, AC Yannarell, **SC Davis**, RI Mackie. 2013. Impact of different bioenergy crops on N-cycling bacterial and archaeal communities in soil. Environmental Microbiology 15(3): 928-942. DOI: 10.1111/j.1462-2920.2012.02844.x.

Davis SC, M Dietze, E DeLucia, C Field, S Hamburg, S Loarie, W Parton, M Potts, B Ramage, D Wang, H Youngs, S Long. 2012. Harvesting carbon from eastern US forests: opportunities and impacts of an expanding bioenergy industry. Forests (*Special Issue: The Role of Forests for Carbon Capture and Storage*) 3:370-397.

Smith P, Davies CA, Ogle S, Zanchi G, Bellarby J, Bird N, Boddey RM, McNamara NP, Powlson D, Cowie A, van Noordwijk M, **Davis SC**, Richter DD, Kryzanowski L, van Wijk MT, Stuart J, Kirton A, Eggar D, Newton-Cross G, Adhya TK, Braimoh AK 2012. Towards an integrated global framework to assess the impacts of land use and management change on soil carbon; current capability and future vision. Global Change Biology 18:2089-2101.

Davis SC, WJ Parton, SJ Del Grosso, C Keough, E Marx, P Adler, EH DeLucia. 2012. Impacts of second-generation biofuel agriculture on greenhouse gas emissions in the corn-growing regions of the US. Frontiers in Ecology and the Environment 10: 69-74 *doi:10.1890/110003*.

Del Grosso SJ, WJ Parton, PR Adler, **SC Davis**, C Keough, E Marx 2012. DayCent model simulations for estimating soil carbon dynamics and greenhouse gas fluxes from agricultural production systems. In: *Managing Agricultural Greenhouse Gases*, eds. M.A. Liebig, A.J. Franzluebbers, R.F. Follett; Academic Press (Elsevier); p.341-353.

Davis SC 2011. Ecological Dimensions of Biofuel Production. ESA Bulletin. *July Reports*: 303-308.

Davis SC, JI House, RA Diaz-Chavez, A Molnar, H Valin, EH DeLucia. 2011. How can land-use modelling tools inform bioenergy policies? Journal of the Royal Society *Interface Focus* 1:212-223. doi:10.1098/rsfs.2010.0023.

Davis SC, FG Dohleman, SP Long. 2011. The global potential for *Agave* as a bioenergy feedstock. Global Change Biology Bioenergy 3: 68-78.

Davis SC, H Griffiths, J Holtum, A Larque Saavedra, SP Long. 2011. The evaluation of feedstocks in GCBB continues with a special issue on agave for bioenergy. Global Change Biology Bioenergy 3:1-3.

Drake JE, **SC Davis**, LM Raetz, EH DeLucia. 2010. Mechanisms of age-related changes in forest production: the influence of physiological and successional changes. Global Change Biology, **17**: 1522-1535.

Somerville C, H Youngs, C Taylor, **SC Davis**, SP Long. 2010. Feedstocks for lignocellulosic biofuels. Science 329: 790-792.

Davis SC, WJ Parton, FG Dohleman, CM Smith, S Del Grosso, AD Kent and EH DeLucia. 2010. Comparative biogeochemical cycles of bioenergy crops reveal nitrogen-fixation and low GHG emissions in a *Miscanthus* x *giganteus* agro-ecosystem. Ecosystems 13: 144-156.

Drake JE, LM Raetz, **SC Davis**, EH DeLucia. 2010. Hydraulic limitation not declining nitrogen availability causes the age-related photosynthetic decline in loblolly pine (*Pinus taeda* L.). Plant, Cell & Environment **33**: 1756-1766.

Davis SC, KJ Anderson-Teixeira, EH DeLucia. 2009. Life-cycle analysis and the ecology of biofuels. Trends in Plant Science 14: 140-146.

Davis SC, AE Hessl, C Scott, MB Adams and RB Thomas. 2009. Forest carbon sequestration changes in response to harvest. Forest Ecology and Management 258: 2101-2109.

Davis SC, KE Dragan, CR Buyarski, and RB Thomas. 2009. High foliar and soil nitrogen concentrations in Central Appalachian forests. Ecosystems 12: 46-56.

Anderson-Teixeira KJ, **SC Davis**, MD Masters, and EH DeLucia. 2009. Changes in soil organic carbon storage under potential biofuel crops. Global Change Biology BioEnergy 1:75-96.

Davis SC, AE Hessl, and RB Thomas. 2008. A modified nitrogen budget for temperate deciduous forests in an advanced stage of nitrogen saturation. Global Biogeochemical Cycles, 22, GB4006, doi:10.1029/2008GB003187.

Parker DC, AE Hessl, and **SC Davis**. 2008. Complexity, land-use modeling, and the human dimension: fundamental challenges for mapping unknown outcome spaces. Geoforum 39: 789-804.

PROFESSIONAL APPOINTMENTS

Professor	Voinovich School of Leadership and Public Service, Ohio University	*2024-present*
Associate Professor	Voinovich School of Leadership and Public Service, Ohio University	*2017-2024*
Assistant Professor	Voinovich School of Leadership and Public Affairs, Ohio University	*2013-2017*
Research Professor	Department of Environmental and Plant Biology Ohio University	*2013-present*
Bioenergy Analyst	Energy Biosciences Institute, University of Illinois at Urbana-Champaign	*2010-2012*
Adj. Assistant Professor	Department of Plant Biology, University of Illinois at Urbana-Champaign	*2010-2012*
Post-doctoral Researcher	Department of Plant Biology, University of Illinois at Urbana-Champaign	*2007-2009*
Research & Teaching Asst.	Department of Biology, West Virginia University	*2003-2007*
Assistant Director	Regional Math/Science Center, Frostburg State University	*1999-2003*
Lab Research Intern	USDA, Beltsville, MD	*1994-1995*

EDUCATION

Ph.D. in Biology, West Virginia University 2003-2007
Specialization: Environmental and Evolutionary Biology
Dissertation: Productivity and carbon budgets of harvested Central Appalachian forests

B.A. / B.S. in Wildlife and Fisheries, Frostburg State University 1995-1999
Specialization: Wildlife Management, Biology, Spanish, Honors Program
Graduated Magna Cum Laude, English Colloquium invitation, Service Leadership Award Nomination, 3 undergraduate academic scholarships, 1 study abroad scholarship

Extra studies: Environmental Issues in Ecuador (1998), Meteorology for Weather Education (2000), Webpage design (2001), Ecological and Environmental Science Issues (2002)

TEACHING/ADVISING

Chaired 21 advisory committees for graduate students completing a thesis/practicum at Ohio University
Served on 24 additional advisory committees for theses or dissertations at Ohio University

Ohio University, Voinovich School of Leadership and Public Affairs, Athens, OH

ES 6900 Special Topics: Photosynthetic Measurement	*2024*
ES 5740 Strategies for Resilient Agriculture	2022-2023
ES 5620/3620 Environmental Science and Public Policy	2021-2023
ES 6820 Ecology and Environmental Issues	2013-2024
ES 29XXT Environmental Studies Tutorials	2015-2023
ES 5710/4710 Bioenergy: Science, Policy, and Business	2017, '19, '22
ES 4500 Capstone: Climate Resilience (co-taught)	2021
ES 4500 Capstone: Environmental Leadership, Science & Communication	2018
ES 5900 Special Topics: Civil Discourse and Environmental Leadership	2017
ES 4500 Capstone: Environmental Science & Policy Literacy	2016
ES 4500 Capstone: Carbon Connections	2015
ES 6580 Graduate Colloquium	2014
ES 6900 Special Topics: Bioenergy Science, Policy & Business	2013, 2015
Guest lecturer for PBIO Ecophysiology	2014-2022
Guest lecturer for ME 4350 Energy Engineering and Management	2018
Guest lecturer for ES 5900 Special Topics: Waste to Profit	2018
Guest lecturer for CHE 4900 Special Topics in Chemical Engineering	2013, 2015
Guest lecturer for ES 4500 Environmental Studies Capstone Seminar	2013

University of Illinois, Department of Plant Biology, Urbana-Champaign, IL

Guest Debate Coach for IB 440 Plants and Global Change	2011
Guest Lecturer for CPSC 415 Bioenergy Crops	2010
IB 452 Ecosystem Ecology	2009
IB 100/101 Integrative Biology	2007-2008

West Virginia University, Department of Biology, Morgantown, WV

Guest Lecturer for Biol 361 Plant Ecology	2006
Teaching Assistant for Biol 361 Plant Ecology	2006
Teaching Assistant for Biol 321 Total Science Experience in Ecology	2005
Teaching Assistant for Biol 106 Environmental Biology	2005
Teaching Assistant for Biol 115 Introduction to Biology	2004-2005

Frostburg State University, Regional Math/Science Center, Frostburg, MD

Science Teacher	2004
Curriculum Coordinator	1999-2003

SERVICE ACTIVITIES

Grant Reviewer: National Science Foundation; National Institute for Climate Change Research; Agriculture and Food Research Initiative, USDA; BBSRC, UK

Editorial Service: Guest Editor for Frontiers in Chemical Engineering (2023)
Guest Editor for Agronomy (2020-21)
Editorial Board member for Energies (2020-present)
Editorial Board member for PLOS ONE (2012-2022)
Editorial Advisory Board member for Global Change Biology Bioenergy (2014-2017)
Guest Associate Editor for Global Change Biology Bioenergy (2011)

Journal Reviewer: Biofpr; New Phytologist; Nature Climate Change; Global Change Biology; Ecological Applications; Journal of Environmental Quality; Environmental Research Letters; Plant and Soil; Functional Ecology; GCB-Bioenergy; Journal of Environmental Management; Ecological Modeling; Tree Physiology; Applied Energy; Resources, Conservation & Recycling; Crop Science; Bioenergy Research; Journal of Experimental Botany; Global Environmental Change; Ecosphere; Biomass and Bioenergy; Frontiers in Plant Science

Consultation: ERG, Inc. (2023); USSEC (2021-2022); BP (2013-2014); Energy Technology Institute, LLP (2010-2012)

Engagement/Service: Research Advisory Board Member for Crane Hollow Nature Preserve (2024); Advisory Committee for Green Bank of Appalachia (2024); Advisory Board for Rising Appalachia (2024); Panelist for Review of *Triennial Report to Congress on Biofuels and the Environment* (2023); Athens Racial Equity Coalition (2021-24), Open OHIO Lead (2018-20); Community Table planning group (2019); Human Dimensions Workshop, ESA (2019); Women Leading Ohio mentor (2018-19); Civil Discourse Working Groups (2017); Waste-to-Fuel Advanced Bioenergy Open House (2016, 2018); Speaker at SOUL Meeting, OU (2014); Ohio Energy Project Speaker, OU (2013-14); Kanawha Project Speaker, OU (2013-14); Student Expo Judge, OU; Energy Farm Open House, UIUC-EBI; Technology-Enhanced Teaching, Center for Teaching Excellence, UIUC, Illinois; Expanding Your Horizons- Outreach education for motivating young scientists, West Virginia; Energizing Schools (NESEA)-Conference for renewable energy design in schools, Maryland; Nature Conservancy, Maryland; Wildlife Society FSU Chapter, Maryland; Americorps Read to Succeed, Maryland

Committees: OURC/Baker Awards Committee (2023-present), University Sustainability Committee (2022-present), Dean Search Committee (2023), Academic Strategy and Planning Committee (2021); One OHIO Engagement Ecosystem Working Group (2019-20); Challenging

Dialogues Task Force (2018-20); University Professional Ethics Committee (2018-20); Faculty Merit Evaluation Committee (2017-19); Deans Evaluation Committee, Ohio Univ. (2015); Search Committee for Director of Center for Public and Social Innovation (2015); Ridges Land Use Planning Subcommittee (2014, 2023); Search Committee for Faculty member in Environmental Studies (2014); Goldwater Scholars Review Committee (2013); Faculty Ethics Committee, Voinovich School, (2013); Graduate Affairs Committee, Dept. of Plant Biology, UIUC: Retreat Planning Committee, Energy Biosciences Institute, UC Berkeley

Professional Memberships: Ecological Society of America (current), American Society of Adaptation Professionals (current), American Geophysical Union, American Society of Plant Biologists, American Association for the Advancement of Sciences

Service leadership positions:
Chair of Baker and OURC Standing Committee (2023-24)
Co-Chair of Dean Search Committee (2023)
Chair of Agroecology Section at Ecological Society of America (2018-2020)

Professional/Leadership Development:
Faculty Learning Community on AI (Fall 2023)
NSF Innovation Corps Training, Great Lakes Region Hub (Sept 29 – Nov 17, 2023)
Visiting Professional at the National Renewable Energy Laboratory (2020)
Leadership Athens County (2019-2020 class)
Research Commercialization Course, Ohio University (Sept 13 – Oct 4, 2016)

Event, Workshop, and Conference Leadership:

- Sustainability Film Series Panel, April, 2024, Athena Cinema, Athens, OH.
- Workshop for microbrewery operators on how to "Convert Brewery Waste into Fuel," July 13, 2023, Jackie O's Brewpub, Athens, OH.
- Renewable Energy in Context, workshop offered as part of "Nature, Science, and Art at the Ridges" event, September 24, 2022, Ohio University, Athens, OH.
- Waste recovery for improved nutrient use efficiency in human systems, Organized Session at Ecological Society of America, August 15-19, 2022, Montreal, Canada. – *lead organizer*
- Farmer Engagement in Agroecology Research: Harnessing Data in Practice, Workshop hosted virtually as part of the annual meeting of the Ecological Society of America, August 7, 2020.
- Septage Solutions Social, June 25, 2020. Virtual meeting and discussion. *–co-organizer and presenter (lead by N. Schlater at Rural Action)*
- Horizons of Interference, Interdisciplinary Art-Science Exhibit, March 3-4, 2020. Walter Hall Rotunda, Athens, OH. *–lead organizer*
- Organic Agriculture and Brewery Waste Workshop, November 22, 2019. Baker Center and Jackie O's Public House, Athens, OH. – *lead organizer*
- Diversified Agroecosystem Management: Can Small-Scale Solutions Address Large-Scale Problems? (Workshop and Panel Discussion at Ecological Society of America 2019

Annual Meeting), August 13, 2019. Louisville Convention Center, Louisville, KY. – *lead organizer and moderator.*

- Navigating Turbulence, Interactive Interdisciplinary Art-Science Exhibit, April 10-24, 2019. Dairy Barn Art Center, Athens, OH. – *lead organizer*
- Navigating Turbulence, Interactive Interdisciplinary Art-Science Exhibit, Feb 27-Mar 30, 2019. Ohio University, Athens, OH. – *lead organizer*
- Emerging Coproduction Systems for Sustainable Rural Economies Workshop. May 23-24, 2018, Ohio University, Athens, OH. – *lead organizer*
- BIOLOGY OF CAM PLANTS. April 9-13, 2018. Desert Botanical Gardens, Phoenix, AZ – *organizer and discussion facilitator*
- National Council for Science and the Environment 16th National Conference and Global Forum on Science, Policy and the Environment, 2016: Food-Energy-Water Nexus; January 19-21, 2016, Washington D.C. – *session organizer, moderator, and speaker*
- Waste-to-Fuel: Bioenergy Open House, October 7, 2015, Athens, OH - *organizer*
- Water in Bioenergy Agroecosystems Workshop, June 12-13, 2012, Chicago, IL –*organizer and discussion facilitator*
- International Soil Carbon Monitoring Standards and Methodologies Workshop, March 21-24, 2011,London, UK –*wrote synthesis paper (published)*
- Harvesting Carbon from Eastern US Forests Workshop, December 10, 2010, San Francisco, CA. –*organizer, discussion facilitator, and lead author of synthesis paper (published)*
- Ecological Dimensions of Biofuel Production Session, Ecological Society of America, August 1-6, 2010, Pittsburgh, PA, USA –*lead organizer and session moderator*
- Agave and Bioenergy Workshop, Guadalajara, Mexico, May 12-13, 2010 –*lead organizer, guest editor for synthesis in journal special issue (published)*
- Resolving land use change: Can biofuels be part of the solution for climate change? April 15-16, 2010, London, UK. –*lead author of synthesis paper (published)*

FUNDED AWARDS

2023-2024	Ohio Nutrient Reduction Strategy Update (Ohio EPA): $200,000 (co-PI)
2023-2024	White Oak Genetics and Tree Improvement Program (Rural Action): $32,190 (PI)
2023-2025	Septage processing in rural southeast Ohio: pathways, innovation, education, and implementation- Gulf Hypoxia Program. (Ohio EPA): $200,000 (co-PI)
2022-2025	Growing capacity of small-scale anaerobic co-digestion: a model system for microbreweries in Appalachia (US EPA, grant no. 00E03138): $195,736 (PI)
2021	Property value and land use impacts of utility scale solar in Ohio (Utility Scale Solar Energy Coalition): $25,000 (coPI)
2020-2022	Value-added products from rural wastes (Sugar Bush Foundation): $116,932 (PI)
2019-2024	INFEWS/T2: OWL-FEWS - Organic Waste Lifecycles at the interface of Food, Energy, Water Systems, (National Science Foundation, grant no. 1856058): $1,999,838 (coPI; PI for Ohio University subaward under grant 2123495)
2019-2020	Exploiting brewery wastes for organic soils management (US Department of Agriculture, Award No. 2019-51300-30257): $50,000 (PI)
2019-2020	Value-added products from rural wastes (Sugar Bush Foundation): $35,000 (PI)
2019-2020	Long Range Planning Grant for Agroecology in the Ecological Society of America: $2500 (Lead)

2018-2022	Open OHIO: $134,835 (PD)
2018-2020	Supporting Renewable Energy Research and STEM Education in Rural Appalachian Ohio (AEP Foundation): $250,000 (co-PI; PI Jen Bowman)
2017-2018	Reclaiming abandoned lands with coproduction of biofuels and high value bioproducts (Innovation Strategy): $20,000 (PI)
2015-2016	Voinovich Collections Fellowship: $1000 (PI)
2015-2016	Sustainable Housing through Holistic Waste Stream Management and Algal Cultivation (NSF 1230961): $309,071 (co-PI; PI Ben Stuart)
2014-2016	Anaerobic digestion system for multiple services: energy, greenhouse gas reduction, waste remediation, fertilizer, and economic returns (1804 Fund): $75,000 (PI)
2013-2017	*Agave* as a feedstock crop in the southwestern US (EBI): $400,000 (PI)
2013-2014	*BP Biomass Handbook* (BP): $17,208 (PI)
2014	Resolving age-mediated responses of forest carbon sequestration to climate change (OU Research Council): $7979 (PI)
2013	Belowground carbon cycling response to climate change and forest age (OU Research Challenge Program): $2500 (PI)
2013	Integrated supply chain analysis for a second-generation bioenergy industry (OU Research Challenge Program): $3500 (PI)
2013	Developing environmentally compatible bioenergy production (OU Research Challenge Program): $2500 (PI)
2012	*Agave* as a feedstock crop in the southwestern US (EBI): $61,878 (PI)
2011-2012	Assessing the Carbon Footprint of Combined Corn and Cellulose Ethanol Production (EPA): $15,000 (PI)
2010	Harvesting Carbon from Eastern US Forests workshop (EBI): $8000 (PI)
2010	Agave for Bioenergy workshop (EBI): $21,000 (PI)
2008, 2010	American Society of Plant Biologists Travel Award: $2000
2006-2007	Eberly College Doctoral Stipend Enhancement Award: $8000
2004-2007	Eberly College Doctoral Student Research Grant: $1500

PRESENTATIONS

Davis SC. The nutrient value of wastes and pathways for retaining them in a circular economy. Appalachian Ohio Watershed Council. Ohio Division of Wildlife District 4, Athens, OH.

Davis SC. Can we improve the nutrient use efficiency in human food systems with a circular economy of organic waste and fertilizer? Ecological Society of America Annual Meeting. August 5-8, 2024, Long Beach, CA.

Davis SC, Pagán J. Bioenergy and Circular Economy of Waste to Energy. Humphreys Fellows Workshop. March 29, 2024, Athens, OH.

Davis SC. Can we really transform waste into fuel and fertilizer? (yes!). October 31, 2023, Athens Public Library, Athens, OH.

Davis SC. Exploiting brewery waste for soil management in organic agriculture. Organic Programs PD Meeting. USDA NIFA Organic Agriculture Research and Extension Initiative (OREI), April 19-20, 2023, Washington D.C.

Davis SC, Pagan J, Huxley T*, Liederbach S*, Karlstrom H*. Energizing waste: Building capacity for community anaerobic digestion. March 27, 2023 Sustainability Hub Seminar. Baker University Center, Athens, OH.

Maynard F*, **Davis SC**. Potential for recycling nutrients from human waste streams to agricultural soils. Organized Oral Session: Waste recovery for improved nutrient use efficiency in human systems. Ecological Society of America 2022 Annual Meeting, August 13-19, 2022. Montreal, Canada.

Davis SC, Reza T, Rodjom A, Wilhelm J, Kruse N, Kauneckis D. Life-cycle framework for coproduction opportunities at the food-energy-water-waste nexus. INFEWS PI Workshop. Virtually hosted by Princeton University, February 9-11, 2022.

Herman T* and **Davis SC**. The influence of emerging diets on bioenergy products. Session U23B: Organic Wastes Sciences as Convergent Research: Connecting Food, Energy, and Water System Sciences. American Geophysical Union 2021 Fall Meeting, December 14, 2021. Online and New Orleans, LA, USA.

Davis SC. Networking and Mentoring Beyond Knowledge Silos. Ecological Society of America Annual Meeting. Virtual, August 2-6, 2021.

Nungesser E, Miller KE, **Davis SC**. Biogas production and digestate quality of diet-influenced food waste in anaerobic digestion. Ecological Society of America Annual Meeting. Virtual, August 2-6, 2021.

Davis SC, LeBauer D. *Agave americana*: a resilient crop for hot and dry regions. Innovative Session: Earth, Agriculture, and Society: Toward Sustainable Development in the Anthropocene. American Geophysical Union Fall Meeting. December 7-12, 2020. (invited)

Davis SC. Science x people: perspectives from best practices in agriculture. Inspire Session: Addressing the Challenges of Ecology's Human Dimensions. Ecological Society of America Annual Meeting. August 3-6, 2020. Virtual Meeting Platform. (invited)

Adjuik T, Rodjom A, Reza T, **Davis SC**. Effects of hydrochar, digestate, and synthetic fertilizer on soil greenhouse gas fluxes in *Miscanthus* x *giganteus* grown as advanced biofuel feedstock. Ecological Society of America Annual Meeting. August 11-16. 2019. Louisville, KY.

Rodjom A, **Davis SC**. Coproduction of biomass crop and anaerobic digestion: Effects on the life cycle emissions of bioenergy and bioproducts. Ecological Society of America Annual Meeting. August 11-16. 2019. Louisville, KY.

Fox A, **Davis SC**. Physiological response of crassulacean acid metabolism in *Agave americana* to water and nitrogen. Ecological Society of America Annual Meeting. August 11-16, 2019; Louisville, KY.

Davis SC. From darkness comes CAM photosynthesis. Colloquium in Environmental and Plant Biology. March 1, 2019; Athens, OH. (invited)

Davis SC, Reza T, Miller KE, Philipinanto D, Herman T, Rodjom A, Adjuik T. Modeling coproduction systems that improve agroecosystem resilience on degraded lands. American Geophysical Union Annual Meeting. December 11-14, 2018; Washington, D.C.

Davis SC, Martin R, Herman T. Introducing a method for science and art collaboration that facilitates translation through civic friendship. Science to Action: Empowering Ecologists to Engage in the Process of Translation for Informed Environmental Decision-making. American Geophysical Union Annual Meeting. December 11-14, 2018; Washington, D.C.

Davis SC. Enhancing Resource Use Efficiency of Agroecosystems. USDA-DOE Circular Carbon Economy Summit; July 24-25, 2018; Golden, CO, USA. (invited)

Davis SC. Coproduction Opportunities. Emerging Coproduction Systems for Sustainable Rural Economies. May 23-24, 2018. Ohio University, Athens, OH.

Davis SC. Opportunities and challenges for developing novel agroecosystems with CAM crops. Biology of CAM Plants 2018. April 9-13, 2018. Desert Botanical Gardens, Phoenix, AZ. (invited)

Herman T and **Davis SC.** Using food waste and bioenergy crops to produce renewable natural gas. (1st Place Prize) Ohio University Student EXPO. April 12, 2018. Athens, OH.

Rodjom A and **Davis SC.** Greenhouse gas fluxes of soil in a cellulosic bioenergy crop *Miscanthus* x *giganteus*. (1st Place Prize) Ohio University Student EXPO. April 12, 2018. Athens, OH

Adjuik T, Rodjom A, and **Davis SC.** Effects of hydrochar, digestate, and synthetic fertilizer on soil greenhouse gas fluxes in *Miscanthus* x *giganteus* grown as advanced biofuel feedstock. Emerging Coproduction Systems for Sustainable Rural Economies. May 23-24, 2018. Ohio University, Athens, OH. (poster)

Davis SC. Managing Forests for Carbon Sequestration, Ohio Forests Summit. December 12-13, 2017. Vinton Furnace State Experimental Forest, McArthur, OH. (invited)

Davis SC and Miller KE. Integrated agriculture, energy, and waste management: Applying ecosystem science to improve nutrient use efficiency of humans. Ecological Society of America Annual Meeting. August 6-11, 2017. Portland, OR.

Davis SC. Contrasting theoretical and realized CO_2 assimilation by CAM plants in desert agriculture. Gordon Research Conference: CO_2 Assimilation in Plants from Genome to Biome. April 30 – May 5, 2017. Lucca, Italy. (invited)

Jones A, **Davis SC**. Fuel yield potential of field grown *Agave America* (L.) based on water soluble carbohydrates, acid extractable carbohydrates, and enzymatic digestibility compared to other advanced biofuel feedstocks. (1st Place Prize) Ohio University Student EXPO. April 6, 2017. Athens, OH

Filyaw T, **Davis SC**. An examination of mycorrhizal symbiosis in forest-grown American Ginseng (*Panax quinquifolius*), and the influence of mycorrhizal colonization on root ginsenoside content. (1st Place Prize) Ohio University Student EXPO. April 6, 2017. Athens, OH

Rodjom A, **Davis SC**. Carbon cycling of the cellulosic bioenergy crop *Miscanthus x giganteus.* (1st Place Prize) Ohio University Student EXPO. April 6, 2017. Athens, OH

Grossman E, Miller KE, **Davis SC**. Designing a gas control system for anaerobic digestion. Ohio University Student EXPO. April 6, 2017. Athens, OH

Davis SC. Potential of CAM crops for energy and bioproducts in a changing climate. Invited Seminar for College of Food, Agriculture, and Environmental Sciences; Ohio State University. February 28, 2017. Columbus, OH. (invited)

Niechayev N and **Davis SC.** The environmental productivity and physiological light response of the CAM plant *Agave americana* (L.): a potential semi-arid biofuel feedstock. 5th PanAmerican Congress on Plants and Bioenergy. August 4-7, 2016. Santa Fe, NM. (poster).

Davis SC and Miller KE. Integrating energy, agriculture, and waste management for environmentally sustainable bioenergy production. 5th PanAmerican Congress on Plants and Bioenergy. August 4-7, 2016. Santa Fe, NM. (poster)

Davis SC. Integrating energy, agriculture, and waste management for multi-dimensional environmental solutions. EnergyPath 2016. July 28-29, 2016. State College, PA.

Davis SC. Introduction to World Café on Integrating Food, Energy and Water Systems to Eliminate Waste. 16th National Conference and Global Forum on Science, Policy and the Environment: The Food-Energy-Water Nexus. January 19-21, 2016. Washington, D.C.

Filyaw T, **Davis S.** 2016. An examination of mycorrhizal symbiosis in forest grown American ginseng (*Panax quinquefolius*). Student EXPO, Ohio University, Athens, OH. April 6, 2016.

Grossman E, Rodjom A, Miller K, **Davis S.** 2016. Giving life to waste: A review of anaerobic digestion. Student EXPO, Ohio University, Athens, OH. April 6, 2016.

Niechayev N, **Davis S**. 2016. The environmental productivity and light response of *Agave americana*: a potential semi-arid biofuel feedstock. Student EXPO, Ohio University, Athens, OH. April 6, 2016. (Second place prize in Environmental Studies)

Whittemore M, **Davis S.** 2016. Mapping and assessment of plant communities at Crane Hollow Nature Preserve. Student EXPO, Ohio University, Athens, OH. April 6, 2016. (First place in Environmental Studies)

Davis SC, Kuzmick ER, Niechayev N, Hunsaker D. 2015. Ecological benefits of Crassulacean Acid Metabolism (CAM) in agricultural production. Ecological Society of America Centennial Meeting. August 9-14, 2015, Baltimore, MD. (poster)

Kuzmick ER, Miles D, **Davis SC**. Investigating the viability of *Agave americana* as a potential bioenergy feedstock and its relative impact on surrounding wildlife. Student Expo, Ohio University, Athens, OH. April 9, 2015. (poster)

Kloepfer JE, **Davis SC**, Buckley G, Sinha G, Lucas R. Changes in ecosystem services of a street tree canopy over 24 years: A case study of Athens, Ohio. Student Expo, Ohio University, Athens, OH. April 9, 2015. (poster)

Davis SC. Land management and terrestrial carbon sequestration. Kanawha Project Panel Discussion. Athens, OH. March 21, 2015. (invited)

Davis SC. Sustainable landscapes in a changing climate. SOUL meeting, Ohio University, Athens, OH, November 12, 2015. (invited)

Davis SC. Sustainable bioenergy in a changing climate. Ecolunch in Department of Biological Sciences, Ohio University, Athens, OH. October 15, 2014. (invited)

Davis SC. Agave: a feedstock crop for a changing climate? 10th Annual Bioenergy Feedstocks Symposium. University of Illinois at Urbana-Champaign, Urbana, IL, September 24, 2014 (invited).

Davis SC, Miller K, Stuart B. *Finding an energy balance in anaerobic digestion.* NSF I/UCRC Center for the Sustainable Use of Greenhouse Gases Meeting; Columbus, OH; August 18, 2014.

Davis SC, Kuzmick E, Lebauer D, Long S. *Potential for converting light to liquid fuel using CAM crops in semi-arid regions.* 34th New Phytologist Symposium: Systems biology and ecology of CAM plants; Tahoe, CA; July 14-19, 2014. (Invited Keynote Speaker)

Kuzmick E and **Davis SC.** *Investigating the potential for Agave americana as a bioenergy feedstock*. 34th New Phytologist Symposium: Systems biology and ecology of CAM plants; Tahoe, CA; July 14-19, 2014. (poster)

Kuzmick E and **Davis SC.** *Potential for Agave americana as a bioenergy feedstock with low water requirements.* Pan-American Congress on Plants and Bioenergy. University of Guelph, Canada; June 4-7, 2014. (poster)

Comisford S and **Davis SC.** *Effects of land use and forest age on the response of tree growth to climatic variation.* Ohio University Student Expo; Athens, OH; April 10, 2014. (poster)

Kloepfer JE and **Davis SC.** *The importance of urban forests: A tree canopy assessment of Athens to quantify ecosystem services.* Ohio University Student Expo; Athens, OH; April 10, 2014. (poster)

Kuzmick E and **Davis SC.** *Investigating the viability of Agave americana as a potential bioenergy feedstock and its relative impact on surrounding wildlife.* Ohio University Student Expo; Athens, OH; April 10, 2014. (poster)

Grennell J and **Davis SC.** *Yield and carbon exchange of Sorghum grown as advanced biofuel feedstock on abandoned agricultural land in southeastern Ohio.* Ohio University Student Expo; Athens, OH; April 10, 2014. (poster)

Davis S. C. Bioenergy systems to mitigate environmental impacts of energy industries. Brown Bag Lunch Seminar Series of the Consortium for Energy, Economics, and Environment. Voinovich School of Leadership and Public Affairs, Ohio University, Athens, OH, October 4, 2013.

Davis S. C. Bioenergy systems that address climate change. Colloquium in Department of Chemical Engineering, Ohio University, Athens, OH, September 30, 2013 (invited).

Davis S. C. Terrestrial carbon dynamics: response to land use and climate change. Colloquium series in Department of Environmental and Plant Biology, Ohio University, Athens, OH, September 20, 2013 (invited).

Davis S. C. Agave: a potential bioenergy feedstock crop for semiarid agricultural land. 16th International Congress on Photosynthesis Research, St. Louis, MO, August 11-16, 2013 (invited).

Davis S. C. Agave: a potential bioenergy feedstock? C4-CAM Meeting, Urbana, IL, August 6-9, 2013 (invited).

Davis S. C. Terrestrial carbon dynamics: responses to land use and climate change. US Forest Service Northern Research Station, Delaware, OH, July 26, 2013 (invited).

Davis S.C. Managing bioenergy for ecological benefits. UC Berkeley Energy Biosciences Institute Seminar Series, Berkeley, CA, November 13, 2012. (invited)

Davis S.C. Effects of management choices on the ecological impact of biofuel crops. Ecological Society of America 97th Annual Meeting, Portland, OR, August 5-10, 2012. (invited)

DeLucia E.H., Anderson-Teixeira K.J., Duval B.D., **Davis S.C.,** Bernacchi C.J., Parton W.J. Impacts of growing perennial grasses for biofuel in the U.S. corn belt. Ecological Society of America 97th Annual Meeting, Portland, OR, August 5-10, 2012. (invited)

Black C. K., **Davis S.C.**, Bernacchi C.J., DeLucia E.H. Elevated temperature and carbon dioxide prime soil-specific increases in heterotrophic respiration. Ecological Society of America 97th Annual Meeting, Portland, OR, August 5-10, 2012.

Paul, R. and **Davis S.C.** Optimizing agroecosystem landscapes for both bioenergy feedstocks and ecosystem services (poster). 3rd Pan American Congress on Plants and Bioenergy, Urbana, IL, July 15-18, 2012.

Straker, K. and **Davis S.C.** Mismatch of life-cycle inventories for bioenergy production and agricultural resource production (poster). 3rd Pan American Congress on Plants and Bioenergy, Urbana, IL, July 15-18, 2012.

Kampwerth, M. and **Davis S.C.** Production and water use efficiency of *Agave* spp. for bioenergy in the southwestern US. 3rd Pan American Congress on Plants and Bioenergy, Urbana, IL, July 15-18, 2012.

Davis S.C. Managing bioenergy agro-ecosystems for negative carbon emissions. GCEP Workshop on Energy Supply with Negative Carbon Emissions, Stanford University, June 15, 2012. (invited)

Davis S.C. Perspective on water cycling in ecosystem models. Water in Bioenergy Agro-ecosystems Workshop, Gleacher Center, Chicago, June 12-13, 1012. (invited)

Davis S.C. Managing bioenergy to mitigate climate change. IDEAS Bioenergy Symposium, UNC Charlotte, March 13-14, 2012. (invited)

Parton W.J., **Davis S.C.**, Del Grosso S., Adler P.R., DeLucia E.H. Ecological modeling of bioenergy production systems using DayCent. Ecological Society of America 96th Annual Meeting, Austin, TX, August 7-12, 2011.

Black C.K., **Davis S.C.**, Bernacchi C.J., DeLucia E.H. Heterotrophic respiration from soil increases with atmospheric carbon dioxide and temperature (poster). Ecological Society of America 96th Annual Meeting, Austin, TX, August 7-12, 2011.

Duval, B.D., **Davis S.C.**, Parton W.J., Long S.P., DeLucia E.H. Greenhouse gas reduction with conversion from pasture to energy cane production. Ecological Society of America 96th Annual Meeting, Austin, TX, August 7-12, 2011.

Davis S.C., Dohleman F.G., Long S.P. Global potential for *Agave* as a biofuel feedstock. Berkeley Bioeconomy Conference, March 24-25, 2011. (invited)

Davis S.C. Carbon dynamics: perspectives from ecosystem models. NSF INTERFACE Meeting: How do we improve earth system models? March 2-3, 2011. Captiva Island, FL. (invited)

Davis S.C., Drake J.E., DeLucia E.H. Carbon sequestration in response to rising atmospheric CO_2 in active and abandoned pine plantations of the southeastern US (poster). American Geophysical Union Fall Meeting. December 13-17, 2010. San Francisco, CA.

Davis S.C., W.J. Parton, S.J. Del Grosso, C. Keough, E. Marx, E. H. DeLucia. 2010. Second-generation biofuel feedstocks improve greenhouse gas economics of agriculture in the Mississippi watershed. 2nd Pan American Congress on Plants and Bioenergy, August 8-11, 2010, São Pedro, Brazil.

Davis, S.C. 2010 Carbon budgets of harvested ecosystems that vary in form and function: from monocultures to diverse deciduous forests. Ecological Society of America, August 1-6, 2010, Pittsburgh, PA, USA.

Black C.K., **S.C. Davis**, C.J. Bernacchi, E. H. DeLucia. 2010. Response of soil respiration to ecosystem warming and elevated atmospheric carbon dioxide (poster). Ecological Society of America, August 1-6, 2010, Pittsburgh, PA, USA.

Davis, S. 2010. Greenhouse gas mitigation potential of bioenergy feedstock crops. Seventh Annual Bioenergy Feedstocks Symposium. Champaign, IL, January 11-12, 2010. (invited)

Davis, S., T. Yannarell, M. Masters, K. Anderson-Teixeira, J. Drake, R. Darmody, R. Mackie, M. David, E. DeLucia. 2009. Restoration of soil organic carbon with cultivation of perennial biofuel crops (poster). American Geophysical Union. December 14-18, 2009. San Francisco, CA.

Davis, S. C. Tony C. Yannarell, Evan H. DeLucia. 2009. Carbon sequestration mediated by plant-soil-microbe interactions in tallgrass prairie communities (poster). American Society of Plant Biologists. Honolulu, HI, July 18-22, 2009.

Kent, A. D., **S. C. Davis**, D. P. Keymer, N. R. Gottel. 2009. Ecology and exploitation of endophytic diazotrophic bacteria in biofuel crops. Energy Biosciences Institute Retreat. Champaign, IL, June 19-22, 2009.

Yannarell, A. C., **S. C. Davis**, R. I. Mackie. 2009. Assessing the influence of two perennial grass biofuel crops on soil bacterial community composition. ASM, May 17-21, 2009.

Davis, S. C. Nitrogen budgets in a carbon-based economy. Department of Plant Biology Colloquium, Urbana, IL, April 3, 2009. (invited)

Davis, S. C. Sustainability of nutrient budgets in bioenergy agro-ecosystems. EBI Internal Discussion Seminar Series. March 6, 2009.

Davis, S. C. Nitrogen budgets in carbon based economy. Cary Institute of Ecosystem Studies, Millbrook, NY February 19, 2009. (invited)

Davis, S.C., W.J. Parton, F.G. Dohleman, N R. Gottel, C. M. Smith, M. David, A. D. Kent and E.H. DeLucia. 2008. Projections of biofuel growth patterns reveal the potential importance of nitrogen fixation in *Miscanthus* productivity. American Geophysical Union Fall Meeting, San Fransisco, CA, December 2008. (invited)

Davis, S.C., K.J. Anderson-Teixeira, E.H. DeLucia. 2008. Ecology, bioenergy, and life cycle analyses. Ecological Society of America. Milwaukee, WI, August 2008.

Davis, S.C., K.J. Anderson-Teixeira, E.H. DeLucia. 2008. Ecology, bioenergy, and life cycle Analyses (poster). American Society of Plant Biologists Pan American Congress on Plants and BioEnergy. Merida, Mexico, June 2008.

Davis, S.C., A.E. Hessl, R.B. Thomas. 2007. Productivity estimates of nitrogen-saturated forests with different harvesting histories: an adaptation of the PnET-CN model. Ecological Society of America Meeting, San Jose, CA, August 2007

Davis, S.C., A. E. Hessl, R B. Thomas. 2007. Productivity of nitrogen saturated forests in the Central Appalachian region: an adaptation of the PnET-CN model (poster). Eberly College Poster Session, Morgantown, WV, May 2007.
